

# Malonic acid, 2,4-dimethylpent-3-yl propyl ester

Inchi:	InChI=1S/C13H24O4/c1-6-7-16-11(14)8-12(15)17-13(9(2)3)10(4)5/h9-10,13H,6-8H2,1-5H
InchiKey:	XYGLQRLIVIQKAJ-UHFFFAOYSA-N
Formula:	C13H24O4
SMILES:	CCCOC(=O)CC(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]:	244.33

## Physical Properties

Property code	Value	Unit	Source
gf	-416.58	kJ/mol	Joback Method
hf	-817.09	kJ/mol	Joback Method
hfus	24.43	kJ/mol	Joback Method
hvap	61.68	kJ/mol	Joback Method
log10ws	-2.62		Crippen Method
logp	2.554		Crippen Method
mcvol	208.910	ml/mol	McGowan Method
pc	1810.77	kPa	Joback Method
rinpol	1489.00		NIST Webbook
rinpol	1489.00		NIST Webbook
tb	648.10	K	Joback Method
tc	832.83	K	Joback Method
tf	335.59	K	Joback Method
vc	0.793	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.70	J/molxK	648.10	Joback Method
cpg	641.76	J/molxK	802.04	Joback Method
cpg	628.87	J/molxK	771.25	Joback Method
cpg	615.23	J/molxK	740.46	Joback Method
cpg	600.82	J/molxK	709.68	Joback Method
cpg	585.64	J/molxK	678.89	Joback Method
cpg	653.89	J/molxK	832.83	Joback Method
dvisc	0.0001087	Paxs	648.10	Joback Method

dvisc	0.0001499	Paxs	596.02	Joback Method
dvisc	0.0002198	Paxs	543.93	Joback Method
dvisc	0.0003497	Paxs	491.85	Joback Method
dvisc	0.0006210	Paxs	439.76	Joback Method
dvisc	0.0012868	Paxs	387.68	Joback Method
dvisc	0.0033428	Paxs	335.59	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U349009&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349009&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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